Place-Based Water Planning

Applicant Profile

Organization Legal Name*

Chehalem Mountain Water Council

Organization Contacts

First Name*

Karyn

Last Name*

Hanson

Role or Title*

President

Email Address*

kghkeatingeng@gmail.com

Phone Number*

9713859345

Entity Type

Non-Profit Organization

Organization Physical Address

Address Line 1*

17000 Northeast Slope Lane

Address Line 2

City*

Newberg

State/Province/Region

Oregon

Postal/Zip Code*

97132

Is the mailing address different from the physical address?*

Yes | No

Organization Mailing Address

Address Line 1

PO Box 291

Address Line 2

City

Newberg

State/Province/Region

Oregon

Postal/Zip Code

97132

Application Instructions

Complete all required sections of the application. Required questions are marked with a red asterisk.

- You must complete the "Grant Type and Applicant Information" section **first**. Based on the grant type you select, the application will automatically adjust to only include questions for the selected grant type. The rest of the sections may be completed in any order.
- At the bottom of each section, you will see an option to move on to the following section **"Next"** or to **"Save Draft & Exit Section."** Pressing either button will save your work on that screen. "Save Draft & Exit

Section" will take you back to the screen with all the application sections. You may return to various sections throughout the application at any time. ***Please make sure you save your work as you fill the application.***

- We recommend you draft longer answers in a Word document and then copy and paste into the application.
- Red bars next to the section on the intake main menu will indicate if a section is incomplete or has issues that need to be corrected before the application can be submitted.
- Multiple people may collaborate on a single application. Please see this support article for more information.

Please review your application prior to submitting (*note*: please ignore automatically assigned section numbers). Once you submit the application you cannot make any updates unless requested during the eligibility and completeness phase.

You can download a PDF copy of your submitted application. We recommend you retain a copy for your records. Click the download button at the top of the page then select "Download".

Review the **Place-Based Water Planning Handbook** before filling out your application, and please reference **Oregon's 2025 Integrated Water Resources Strategy**.

Please reference the OWRD **Grant Budget Procedures and Allowable Costs** document when determining the funding request and budget.

Submit the completed application and all attachments via the online portal.

Applicants are discouraged from submitting information considered proprietary unless it is deemed essential for proper evaluation of the application. Please note that eligible and complete applications will be posted on the **Planning Grants webpage**.

If you have any questions, contact staff at 503-871-5868 or pbwp@water.oregon.gov.

Pre-Application Conferences

A pre-application conference is a service offered by OWRD to potential funding applicants. We strongly encourage all prospective applicants to request a pre-application conference before submitting an application.

The purpose of a pre-application conference is to answer your questions about the funding process, identify any additional information that may be needed, discuss potential eligibility issues, and provide guidance on both the procedural and substantive requirements of the application, including how applications are scored.

Before you request a pre-application, you must complete all required questions (marked with *) for your selected grant type. You do NOT need to complete the following sections prior to the pre-application conference: "Letters of Support Request," "Attachments," or "Certification."

To schedule a pre-application conference:

- Email pbwp@water.oregon.gov or call 503-871-5868.

Place-Based Water Planning

- You **must complete the applications sections** and email your request **at least two weeks prior** to the pre-application conference date. This allows adequate time for review.
- **Do not submit the application** in the grants portal but leave your application as draft. Staff will be able to review your draft answers.
- Please include **any questions or concerns** you would like to discuss. This helps us prepare to provide the most useful guidance during the meeting.

See **Place-Based Water Planning Pre-Application Conferences** for more information.

Did you read the application instructions carefully?*

Yes | No

Grant Type and Applicant Information

What type of Place-Based Water Planning Grant are you applying for?*

Please select one.

Planning Readiness Evaluation and Preparation (PREP) Grant | Plan Development Grant | Post-Plan Coordination (PPC) Grant

Principal Contact

Contacts

First Name*: Karyn

Last Name*: Hanson

Role or Title: President

Email Address*: kghkeatingeng@gmail.com

Phone Number*: 9713859345

Principal Contact Address

Place-Based Water Planning

Address Line 1*

PO Box 291

Address Line 2

City*

Newberg

State/Province/Region*

Oregon

Postal/Zip Code*

97132

Applicant Entity Type*

Non-Profit Organization

Do you have a Co-Applicant?*

Yes | No

Fiscal Officer

Contacts

First Name*

Juliette

Last Name*

Wait

Role or Title

Acting Treasurer

Email Address*

jlwait@gmail.com

Phone Number*

2146688433

Organization*

Chehalem Mountain Water Council

Fiscal Officer Address

Address Line 1*

14032 SW Bench View Terrace

Address Line 2

City*

Tigard

State/Province/Region*

Oregon

Postal/Zip Code*

97224

Funding Request (PREP Grants)

Planning Effort Name*

The name of your planning effort should refer to the geography of the planning area.

Contiguous SW Groundwater Limited Areas

Grant Funding Request*

The grant funding request amount represents the total amount of grant funding you are applying for. The maximum funding request for a PREP grant is $100,000.

$ 95,250 USD

Match Funding*

Match funding is required. Match funds may be composed of in-kind or cash match funds and must be at least 10% of the grant funding request (e.g., if the funding request is $100,000; match amount must be at least $10,000).

$ 9,632 USD

Please reference the OWRD **Grant Budget Procedures and Allowable Costs** document for more details on how to calculate match.

Match Funding %

Must be at least 10% of the Grant Funding Request. This value will be automatically calculated based on your entries for Grant Funding Request and Match Funding.

10.112335958005248%

Total Funding

This value will be automatically calculated based on your entries for Grant Funding Request and Match Funding.

104882

Planning Area Location (PREP and Plan Development Grants)

Please propose a planning area that is both hydrologically connected and logistically feasible for collaboration.

Describe the boundaries of your proposed planning area. What hydrologic characteristics connect the area (e.g., single watershed, proximate watersheds, groundwater basins)? *

The preliminary planning area boundaries are established boundaries of the Chehalem and Parrett Mountain Groundwater Limited Areas and the Bull-Cooper Mountain Critical Groundwater Limited Area and the Sherwood-Dammasch-Wilsonville Groundwater Limited Area. These areas all have limited groundwater available. They all share the same geology as described in the next question. We may invite people from other nearby groundwater limited areas to build capacity for groups also living in groundwater limited areas that are too far away to be included in our full planning analysis. We will make a final determination on the planning area boundaries early in the grant period.

These areas drain to the Tualatin River and Willamette River. The impact of groundwater pumping on tributary streams is part of the groundwater rights permitting process. We are interested in the impact of groundwater levels on stream flows as well. We hope to broaden public understanding that rain falling in Yamhill County impacts groundwater in Washington County.

How large is your proposed planning area in square miles?*

Planning areas should generally range between 500 to 4,000 square miles.

220

Place-Based Water Planning

Explain how other factors were considered when determining the proposed planning area boundaries.*

Potential factors to consider may include things like: climate, geology, ecological conditions, water infrastructure, scale of information available to support planning, legal and political boundaries, socioeconomic characteristics, scale of implementation strategies, and location in the watershed. If the size of your proposed planning area is significantly smaller than 500 square miles or significantly larger than 4,000 square miles, please include in your explanation why a smaller or larger planning area is required and how it might impact your planning process.

Our planning area will include the groundwater limited and critical areas in and adjacent to Chehalem Mountain. Please see attached map. In addition to the Chehalem Mountain Water Council, partners currently included in this planning effort are Tualatin Soil and Water Conservation District (TSWCD), Tualatin River Watershed Council, Yamhill Soil and Water Conservation District (YSWCD), The Greater Yamhill Watershed Council (GYWC), and Clackamas Soil and Water Conservation District (CSWCD). The districts associated with these groups cover the groundwater limited and critical areas on and adjacent to Chehalem Mountain. We expect many more partners if our application is successful and we can engage more broadly.

These areas share the Columbia River Basalt (CRB) geological formations which define the storage characteristics of the aquifer system that supplies our water. Specifically, Chehalem Mountain, Cooper-Bull Mountain, Parrett Mountain, and Pete's Mountain are shown on the Oregon Water Resources Department (OWRD) geology layer as CRB. Please see attached map. Groundwater rights are more strictly permitted in these areas. Additionally, the planning area contains significant watersheds where new surface water rights are not permitted in order to protect instream uses. Two of these watersheds, Burris Creek and an unnamed stream in the Bull-Cooper Mountain critical area are characterized by OWRD and ODFW as priorities for steam flow restoration.

The portions of the planning areas that are of primary interest are predominately rural where water infrastructure is limited with significant portions of the population relying on wells to supply water for domestic, commercial, and firefighting uses. These areas are outside of the boundaries of municipal water master planning and thus do not benefit from water planning beyond county plans which largely defer to state level assessments. State administrative boundaries are large; characterization of water availability is not typically detailed enough to adequately identify issues in upland tributary areas. Recent storage water rights applications in the Chehalem Mountain area have relied on stream gauges at the confluence of tributary streams and the Willamette or Tualatin Rivers.

This preliminary planning area is approximately 220 square miles. This is a smaller area than planning areas previously supported for place-based planning. The lead convener in this grant application has significant experience with municipal level water, wastewater, and stormwater infrastructure planning. That experience influences the vision of the ultimate planning scope of this project; the expectation is that outcomes will include system level project implementation. The analysis that is anticipated as necessary to support those outcomes is significant. A larger planning area may be unrealistic. There are several groundwater limited areas in the Willamette Basin. It is reasonable to expect the outcomes of this planning effort to apply in other groundwater limited areas with similar geology. We would welcome representation from these areas who could plan similar analysis specific to their local context. We will reach out during this PREP grant to see what relationships are available.

Please identify the Oregon county or counties in the proposed planning area.*

Select all that apply.

Clackamas County | Washington County | Yamhill County

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In the question below, identify the watershed within which the project would be completed. Report the USGS Hydrologic Unit Code (HUC) 10-digit number and name. This information can be found using the Statewide Hydrologic Unit Code Map or OWRD's Water Rights Mapping Tool.

To find the information on OWRD's website, select "*Access Data/Maps*" then select "*Maps*" and finally, "*Water Rights Mapping Tool*."

- To use the tool, first identify the location of and zoom in on your project area.
- Next, select, "*Identify Non-Water Right Features*" on the bar on the left, and then select the information icon.
- Click once on the map in the center of your project area (you may need to zoom in to be able to select an area on the map) and data should appear in the box on the left.
- Select the "*Hydrography*" tab on the menu. Here you will find the "*HUC 10*" number and the "*HUC Watershed*" values.
- Report these values in the question below.

Please identify the HUC10 watersheds in the proposed planning area.*

Select all that apply.

- 1709001002 | Scoggins Creek-Tualatin River
- 1709000703 | Chehalem Creek-Willamette River
- 1709000704 | Abernethy Creek-Willamette River
- 1709001005 | Fanno Creek-Tualatin River
- 1709001004 | Rock Creek-Tualatin River

Please provide a map of your proposed planning area in the attachments section.

Required map elements:
- Map title and legend
- Planning area boundaries
- North arrow and map scale
- County boundaries
- Cities
- Major sources of surface water (e.g., rivers, lakes, streams, wetlands, reservoirs)

Value, Outcomes, and Approach (PREP Grants)

Why could PBWP be the appropriate approach for your area?*

Include current and potential future water challenges in your basin and how PBWP could help address those challenges. Consider the principles of Place-Based Water Planning (PBWP Handbook, page 8).

Place-Based Water Planning

Our planning area includes limited and critical groundwater designations and large watersheds where no new surface water rights, except storage, are currently permitted in order to protect in stream uses. It includes the Chehalem Mountain, Parrett Mountain and Sherwood-Dammasch-Wilsonville groundwater limited areas as well as the Bull-Cooper Mountain groundwater critical area. The state has withdrawn authority to appropriate surface water in the Burris Creek, Corral Creek, and three other unnamed creeks tributary to the Tualatin River. Water supply is a great concern in our community.

The recently published Sixth Oregon Climate Assessment by the Oregon Climate Change Research Institute shows that Oregon is getting warmer and drier, which will likely lead to even further degradation of water supplies. Low summer flows in Willamette Basin tributaries have been identified as problematic for fish presence and viability. This will continue to be exacerbated as climate conditions result in higher summer temperatures and lower precipitation.

The Chehalem Watershed Assessment, completed by the Yamhill Basin Watershed Council in 2001, identified historical water quality and quantity issues in the Chehalem Creek basin. Twenty five years later these issue remain but an updated assessment has not been done. Most streams in our planning area are water quality impaired - identified as 303D listed. Recently, many have been identified as requiring a Mercury Total Maximum Daily Load (TMDL) assessment.

The Tualatin River is a slow moving river that winds through agricultural lands and urban areas. It receives effluent from a number of large wastewater treatment plants. A consortium of water stakeholders have worked together for decades to address nutrient overloading, temperature and habitat protection and restoration. This group will bring valuable experience to a collaborative planning group and may benefit from considering more information on groundwater impacts in the watershed.

There are a variety of land uses that impact our water quality and require significant water supply.

These include:

Varied agricultural activities - Crops include vineyards, hazelnut orchards, Christmas trees, wheat, clover, and grass seed. Livestock are abundant as well. Farming practices such as hazelnut orchards and vineyards that have no ground cover throughout the winter lead to erosion which can degrade water quality in streams. Crop irrigation can require significant amounts of water, depending on type. Recently updated groundwater rules have made groundwater rights more difficult to attain (positive outcome!) resulting in more applications for storage for irrigation in upland areas where there isn't sufficient data on stream flows (unintended consequence?). Effective communication amongst stakeholders with different needs could improve our approach to these issues.

And residential development pressure - The implementation of state land use planning goals by counties with jurisdiction in the planning area would benefit from broader input where jurisdictions overlap. Some policies are not aligned with the reality of climate change. Decisions that could be better defined locally are often deferred to the state. While the state has appropriate jurisdiction, residents might hope for a deeper assessment of the impact of land use on water supplies locally. Decades ago, zoning changes to land set aside exclusively for farming were applied before water scarcity was an issue; land exclusively used for farming was zoned for residential use which may be considered a use that requires less water, but is not necessarily a more beneficial use and is not metered. Effective communication amongst stakeholders with different needs could improve our approach to these issues as well.

Where water availability is limited the impacts of new uses, exempt and non-exempt, may appear small relative to the size of the administrative watershed basin. They are not small, however, to the local watershed. This is evidenced by the significant public involvement in the planning area in land use and water rights decisions, soil and water conservation consultations and projects, interest and engagement with watershed health best practices, and wildfire readiness seminars. A quick review of information shared and commented on in local neighborhood Facebook groups will support this observation. A more quantitative characterization could be made by referencing the number of comments submitted on recent water rights permit applications, land use hearings and related financial contributions to support expert analysis and legal support or with an observation of the consistency with which residents attend

community participation organization (CPOs) and land use advocacy groups like Save Helvetia. Three years ago a group of neighbors consolidated their efforts to establish the Chehalem Mountain Water Council, a nonprofit organization, led by folks with technical expertise who have established working relationships with local soil and water conservation districts, watershed councils, statewide agricultural advocacy, local vineyard growers, and residents with both domestic and commercial water rights. Our community actively engages in decisions impacting our water supply.

Place based planning is a logical next step which would provide the structure needed to convert existing siloed community engagement into more holistic discussions based on accurate understanding of localized hydrology and water agency challenges. The process could provide for discussions between:
•City stormwater policy makers and residents right outside the urban growth boundary who might benefit from more storage in the higher elevations but have no standing to comment on city policy
•County land use planners charged with updating comprehensive plans and residents who live in groundwater recharge areas that should be protected from the kinds of development that could impact aquifer water quality
•Irrigation district maintenance managers dealing with aging infrastructure and local watershed councils eager for stream flow restoration
•Soil and water conservation district project managers and property owners with acreage adjacent to the riparian areas that play such an important role in stream water quality and biodiversity.

This place based planning process includes a system wide analysis of challenges and opportunities based on current, approved data and studies. This kind of planning process, effectively managed, could form partnerships focused on assessing actionable solutions supported by environmental groups, irrigation and fire districts and municipal, county, and state agencies. A collaboration of the varied stakeholders impacted by water supply in our planning area could mobilize shared priorities. This could help solidify opportunities for funding a community vetted plan that identifies projects whose implementation may address multiple objectives. Ultimately, an implemented plan that is the result of a collaboration of stakeholders with varied interests will strengthen community support. It has the potential to change the narrative about water to a story about community wisdom and agency. Everyone's water supply is threatened. Most would rather work toward an effective solution than observe conflict and loss helplessly - especially the actively engaged people that live in this community.

What are the expected outcomes from this initial phase of planning?*

Include outcomes related to relationship building, goal identification, information gathering, and readiness assessment. Explain why the PREP phase is an important starting place for your planning area. Consider the PREP Section in the Place-Based Water Planning Handbook in your answer (pages 12-16).

We have already begun to prepare for a public water planning process. This "readiness evaluation and preparation" grant would provide the resources needed to evaluate gaps in our knowledge of the variety of water uses impacting our supply based on the most current data and studies. It would support much broader public outreach than we have yet had the resources to conduct. We would hope, as a result, to broaden our relationships with both public and private stakeholders.

The broad goal of this work is a complete assessment of the planning group's readiness to scope and carry out the work of an initial physical characterization, assessment of in stream and out of stream water needs and subsequent identification of projects/initiatives to support water resilience which comprehensively reflect the needs and values of everyone in the planning area including the ecosystem. This will require agreement from public and private partners to participate in the work of planning. A recommendation to continue to the next planning stage would rely on an initial engagement with stakeholders that sets the stage for collaboration and trust. A high degree of buy-in from the community including watershed councils, soil and water conservation districts, fire and irrigation districts,

local and state governments, and new partners identified along the way for a proposed scope of work would signal adequate preparation for the next planning phase. This is the primary outcome we hope to achieve.

This readiness assessment will also include requests where we find the need for support and/or acknowledgment of limitations that cannot be overcome.

Describe your anticipated approach to identifying shared goals in your planning area. *

Consider the diverse water interests in your community as they relate to water quantity, water quality, and ecosystem needs for both groundwater and surface water.

A series of steps will be taken which will increase the potential of developing broad commitment to shared goals. They include:
•Effective public outreach resulting in good turnout at public meetings

•Presentation of current, accurate, relevant water supply information which is perceived as true

•Explanation of current law and policy related to appropriation of water including a deep consideration of the concept of beneficial use

•Description of the mission and activity of stakeholder groups within the watershed

•A group exercise distributing a limited amount of water to a complex set of needs. This will help illuminate participants' values based on criteria used in the distribution. A set of goals that reflect the values identified will be enumerated and ranked collectively. This will create an initial list of shared goals which would likely need refinement during the next planning phase.

We will accomplish these steps through targeted public outreach by direct mailing (postcard soliciting participation in an online survey) and partner contact with constituents, customers, and residents (based on same post card solicitation). The postcard will provide a link to a story map (created by Bluewater GIS, a geo-spatial firm specializing in environmental data visualization) which will include a survey that provides general information about the watershed a participant lives in, asks what their concerns and values are, and requests their attendance at a public meeting to discuss water. Care will be taken to develop survey questions that relate directly to the participants' experience and lead to opportunities to effectively impact the issues they perceive as important. Incentives to participate will include coupons for native plants from plant sales and links to information about plants that will thrive in the vicinity of the participant.

We will also meet with institutional stakeholders to introduce the project and ask for support. These stakeholders will include Yamhill, Washington, and Clackamas Counties, the Cities of Newberg, Sherwood, Tigard, Bearverton, Wilsonville and West Linn, Soil and Water Conservation Districts in each county, affiliated watershed councils, Tualatin Irrigation District, The Join Water Commission, private water companies in each jurisdiction and others that will be identified during the grant period. Please see initial list in subsequent question.

A public meeting will be held in each groundwater limited area. The agenda of the meeting will include:
•A general overview of the hydrology of a specific watershed in the area.
•The legal context of water appropriation, including a discussion about beneficial use.
•The mission and activity of stakeholder groups in the watershed with a focus on the impact of water availability and quality on their success and how that success relates to beneficial use of water
•A summary of what decision making looks like in a resource limited context - how much water is there now and how it is appropriated (water rights process). How does that appropriation change with less water? With more water? We

will query the group about values based on survey results and ideas from previous place-based plans.
•Group Exercise facilitated by Andrew Purkey of Fluent Freshwater Insights, an environmental consulting firm that specializes in complex water resource management and watershed sustainability.
•Conclude exercise with discussion about how the values identified during the exercise tie to goals in terms of investments. We will summarize findings and ask for feedback on the summary. The results will be submitted in an attachment to the final readiness report.
•We will outline what a place-based planning process is and what participation will require and ask for participant's long-term commitment.
•We will ask participants if anyone is absent from the table. While we start with our own understanding of who should be part of the planning effort, the group that actually shows up will probably be able to identify what we have missed. This will increase the likelihood that everyone who should be present for the next planning phase is invited to participate.

Describe your anticipated approach to gathering existing data, studies, and plans relevant to your proposed planning area. If you have already identified specific data, studies, and plans or experts you plan to work with, include that information here. *

Please see the Place-Based Water Planning Handbook and website for more information on the types of state agency technical assistance available to grantees.

Members of the initial planning team have professional experience with state and local agency data, studies, and plans and have built effective relationships with agency experts who provide technical guidance. We think we have already gathered the data, studies and plans we will review. We will follow the responsive technical assistance procedure detailed in the Place-Based Water Planning Handbook to request support for anything we learn we are missing and can not obtain. Our public engagement will be most effective if the information we are discussing remains consistent throughout the planning process with deeper understanding accumulating toward the later planning phases (plan development, implementation, and updating) which will include developing decision criteria, evaluating options, and building consensus on implementation. Building capacity for planning participants to engage technical information will rely on this consistency.

During the early months of the grant period we will build a consensus around which information is most useful for our story map survey and public meeting presentations. This will involve members of the initial planning team reviewing an initial list, expressing opinions about accuracy and usefulness, and adding what they believe is missing. This initial planning team collectively has substantial science and engineering background. That professional experience suggests a basic understanding of what is good science and what is not. We have experience with different agencies' public activity and know where energy invested in review and sharing information is well spent. A consensus will not be difficult to reach. There will be additional review during subsequent work phases as the story map and public meeting presentations are prepared. A finial bibliography will be submitted with the final grant report.

Existing information

Scandella, Ben. Susceptibility of Oregon wells to being dried by water level decline. Oregon Water Resources Departmnent. 2024

Scandella, Ben. Analysis of Oregon wells correlated with precipitation, Oregon Water Resources Department. 2024

Scandella, Ben, and Justin Iverson. 2021 Oregon Groundwater Resource Concerns Assessment. Oregon Water Resources Department, 2021

Tolan, Terry. Introduction to the Geology and Hydrogeology of the Columbia River Basalt Group. 2006

Woody, Jen. A Preliminary Assessment of Hydrogeologic Suitability for Aquifer Storage and Recovery (ASR) in Oregon. 2007

Groundwater Supplies in the Wilamette Basin, Oregon Water Resources Department, 2002

Cooper, Richard. Determining Surface Water Availability in Oregon. Oregon Water Resources Department, 2002.

Frank, F. J. and Collins, C. A. Groundwater in the Newberg Area, North Willamette Valley, Oregon. Groundwater Report No. 27, Oregon Water Resources Department. 1978

Leonard, A. R. and Collins, C. A.. Groundwater in the Northern Part of Clackamas County, Oregon. North Willamette Basin, Northern Clackamas County, Groundwater Report No. 29. Oregon Water Resources Department and Department of the Interior. 1983

Miller, Donn and Gates, Sarah and Broderson, Brett, and Zwart, Michael. Groundwater Conditions of the Basalt Aquifer, Parrett Mountain, Northern Willamette Valley, Oregon. Groundwater Report No. 40. Oregon Water Resources Department. 1994
Gannett, Marshall and Lite, Kenneth and Morgan, David and Collins, Charles. Water Resources Investigations Report No. 00-4162 Groundwater Hydrology of the Upper Deschutes Basin, Oregon. USGS and Department of Interior. 2001 (Groundwater Surface Water Interaction Section)

Bonn, Bernie. 2021 Tualatin River Flow Management Technical Committee Annual Report, Clean Water Services. July 2022

Dalgaard, Stacey. State of Water Justice in Oregon. Oregon Environmental Council and Oregon Water Futures Project. 2022

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Oregon STREAM Team. Monitoring Strategy for Oregon's Waters: An Inter-Agency Approach. State of Oregon, 2017

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US Department of Agriculture. Conservation Effects Assessment Project (CEAP). June 2023

Oregon Department of Environmental Quality. Lower Willamette River Cold-Water Refuge Narrative Criterion Interpretation Study. Water Quality Standards and Assessment Division, 2020

AMP Insights. The Business Case for Investing in Water in Oregon. Oregon Water Resources Department, July 2023

Place-Based Water Planning

United States Army Corps of Engineers, Portland District. Willamette Basin Review Feasibility Study: FINAL Integrated Feasibility Report and Environmental Assessment. Dec. 2019

Oregon Department of Land Conservation and Development, and Oregon Climate Change Research Institute. 2021

Yamhill Basin Council. Chehalem Watershed Assessment. 2001. Greater Yamhill Watershed Council

Willamette Water Supply Program. "Program Overview." Willamette Water Supply Program, 2026

OWRD groundwater, water rights, surface water GIS data
OWRD Water Availability Reporting System and new Surface Water Information Modeling System
County and City Comprehensive Plans including relevant Tribal, federal, statewide or local natural resource plans
County and City GIS data
USGS Stream Stats and Monitoring Data
EPA GIS Data
Chehalem Mountain WellIntel Groundwater Monitoring Network Data

Future Studies Anticipated during planning period:
Consumptive Use Estimates Major Hydrologic Basins OWRD 2028
Groundwater Budgets for Major Hydrologic Basins OWRD 2028

Experts Involved
Karyn Hanson, PE, Water Resources Engineer
Nicole Rugerrio, Tualatin Soil and Water Conservation District, Rural Conservation Program Manager
Scott McEwen, Tualatin River Watershed Council, Executive Director
Jordan Anderson, Yamhill Soil and Water Conservation District, Conservation Projects Manager
Greta Hulstrom, The Greater Yamhill Watershed Council, Executive Director
Christopher Lapp, Clackamas Soil and Water Conservation District, District Manager
Ben Giudice, Ph.D., PE Water Resources Engineer and Professor, George Fox University - Student Involvement
Nellie McAdams, Executive Director, Oregon Agricultural Trust
Katie Gaut, GIS Analyst and Owner Blue Water GIS
Andrew Purkey, Facilitator, Fluent Freshwater Insights
Wendy Willis and Sarah Giles, Oregon Kitchen Table
Various professional contacts for Hydraulic and Hydrologic Modeling
Bob Long, RG Owner, cwm-h2o, Hydrogeologist

Oregon Water Resources Department Staff we have worked with:
Dennis Orlowski, RG, OWRD Hydrogeologist
Gaby Ferreira, RG, OWRD Hydrogeologist
Jake Constans, Watermaster District 18
Joel Plahn, Watermaster District 22
Mary F. Bjork, Water Right Services Program Analyst

Oregon Department of Agriculture
Rick Cowlishaw, Regional Water Quality Specialist

Oregon Department of Environmental Quality
Grace Goldrich-Middaugh, Basin Coordinator

Oregon Department of Fish and Wildlife
Dave Steward, Fish Habitat Restoration Biologist

Place-Based Water Planning

Leadership & Collaboration (PREP Grants)

Who will lead this phase of planning?*

This may be an individual, a group of individuals, an organization, or a team of organizations that will start to bring together a balanced representation of water interests to engage in the PREP phase. Describe what these leaders will bring to this phase of planning, including commitment, relevant skills and/or community standing.

Chehalem Mountain Water Council, Karyn Hanson, PE Water Resources 21 years

I am a "retired" civil engineer licensed in water resources. I have volunteered over the last 7 years to support members of my community in responding to water rights and land use projects that they were concerned would have a negative impact on our groundwater supply. I was asked to lead the Chehalem Mountain Water Council in 2023. I have benefited from attending many community meetings to learn what neighbors worry about with regard to water and to request support for our groundwater level monitoring network (supported by a grant from Tualatin Soil and Water Conservation District). These groups included several Washington County Community Participation Organizations, The Yamhill County Water Task Force, Yamhill Soil and Water Conservation District Work Meetings, members of the Board of Directors of Chehalem Mountain Wine Growers, ad hoc neighborhood meetings, and a variety of individuals with water supply concerns.

I have experience working at the municipal, state, and federal level on water resources issues. My career was predominantly dedicated to hydrologic and hydraulic modeling in support of infrastructure system planning as well as public facility (infrastructure) review (application of municipal codes and master plan recommendations to new development) for land use, water and wastewater treatment, pump station design, groundwater quality, and developing and gaining support from all City of Portland Bureau of Environmental Services departments for the implementation of a risk based asset management plan - implementation of infrastructure system plans through prioritizing capital improvement schedules and budgets to reduce risk. We (three team members with senior engineering authority) facilitated department meetings where the risk of infrastructure failure was defined collaboratively (probability of failure and costs of the consequences of failure) and led function specific work groups to develop processes and procedures. I co-founded the City of Portland Equity Council in 2012 and provided training to all the City of Portland infrastructure bureaus on how to apply an equity lens to infrastructure planning through asset management. My last large assignment was the application of an equity lens to how the City of Portland Bureau of Environmental Services reduced basement sewer back up risk throughout the city with its capital improvement program.

Recently, I designed and installed a community groundwater level monitoring network within the Chehalem Mountain Groundwater Limited Area in partnership with OWRD hydrogeologists that focus on the area. (The network was supported by a grant from TSWCD). This work relied heavily on a review of data provided by the OWRD Groundwater Information System and follow up with the public and private hydrogeologists to understand that data and provide input on priority areas for monitor installation. This is an ongoing dialogue.

Nicole Ruggerio, Jordan Anderson, Greta Holstrom, Scott McEwen, and Christopher Lapp are the initial committed planning partners and will provide support for the leadership of the project. Some of their community focused collaborations are detailed in the next question.

Place-Based Water Planning

How have potential planning partners worked collaboratively with varied interests in the past?*

Please provide one or more examples of previous collaborative efforts in your community that involved proposed PREP leadership. If applicable, include information about how those efforts might inform this process.

Chehalem Mountain Water Council, Karyn Hanson, Lead Convener – I started my water work on Chehalem Mountain with a group that was inexperienced with water issues. It took some time to shift their perspective to a more objective and collaborative approach. This eventually led to the understanding that supporting transparency and accountability with regard to how water is used is a more effective focus than blaming and criticizing other property owners and regulating agencies. In the last few years, I have been able to glean support for including farmers as partners in our work. I met with several large vineyard owners as well as hazelnut and berry farmers to solicit their support and involvement. Our groundwater level monitoring network includes one farmer who updated his irrigation permit and uses the data his monitor provides along with manual static level measurements to report on his permit.- Several more farmers are interested and waiting for funds to support our work in Yamhill County. The Chehalem Mountain Water Council has developed mutually respectful relationships with local farmers. We understand our shared responsibility to steward our water supply. This translates to cooperation and support. Having successfully established relationships between domestic users and agricultural users of water, we feel confident we can identify and build relationships with other water users in the planning area.

Tualatin Soil and Water Conservation District, Nicole Ruggiero, Rural Conservation Program Manager – Tualatin SWCD is a local unit of government that helps the community improve conditions of soil, water, and other natural resources. Nicole has worked with local farmers and residents in the Tualatin River watershed (part of the preliminary planning area) over the last 8 years. These relationships have led to the implementation of many soil and water conservation projects on private lands including cover cropping, rainwater harvest, irrigation efficiency, and pasture improvements.

Yamhill Soil and Water Conservation District, Jordan Anderson, Conservation Projects Manager - Yamhill SWCD is also a local unit of government that develops conservation solutions in partnership with our community. Jordan has worked with farmers in Yamhill County (part of the preliminary planning area) over the past 4 years. He has lead conservation projects including no-till drill seeding, riparian revegetation, and invasive weed management and conducts water quality monitoring and conservation planning throughout Yamhill County.

Nicole and Jordan are both currently managing a Focused Agricultural Solutions grant from Oregon Department of Agriculture and Oregon Watershed Enhancement Board aimed at improving agricultural water quality in 3 subbasins of our preliminary planning area.

The Greater Yamhill Watershed Council, Greta Holmstrom, Executive Director - Greta has significant experience working on complex water use projects. She has experience managing public outreach projects and creating collaborative efforts to solve natural resource issues. She also has significant planning experience in her previous career. This will be very important to our partnership with cities and counties.

The Tualatin River Watershed Council, Scott McEwen, Executive Director - Scott is an aquatic biologist and has been a conservation leader in the Pacific Northwest for over a decade. Prior to his work with the Tualatin River Watershed Council, Scott served for nine years as the Conservation Director for Columbia Land Trust where he and his team permanently protected over 15,000 acres of threatened habitats in both Oregon and Washington. He also served for three years as the Director of Technical Programs overseeing habitat restoration and ecosystem monitoring programs for the Lower Columbia Estuary Partnership.

The Clackamas Soil and Water Conservation District, Christopher Lapp, District Manager - CSWCD provides professional advice on land management and natural resource conservation for everyone in Clackamas County. They help people find the tools and information they need to care for their land and shared environment. They partner with 10 watershed councils, the OSU Extension Service, and many other public and private agencies to conserve natural resources.

This team has a significant amount of experience working on projects/initiatives that required significant collabora-

tion with a diverse set of stakeholders. From rate supported, mandated infrastructure planning, to tax supported soil and water conservation work, to mostly volunteer, grant supported watershed health projects this group brings together many community leaders with a long history of commitment to natural resource stewardship and success in completing projects that support those goals.

Describe your proposed approach to identifying and engaging water interests in the proposed planning area. *

Engaging diverse interests helps ensure a process that meets instream and outofstream water quantity, quality, and ecosystem needs for both surface water and groundwater. Your approach should help ensure balance and inclusivity.

Each initial planning partner will review a preliminary list of institutional stakeholders to confirm the list is complete and/or recommend additional groups. Two of us will schedule a meeting with each group. We will prepare by understanding the group's mission, responsibilities and organization. At the meeting, we will present the place based planning program, ask them what partnerships they already maintain and if they believe participating in a more regional water planning effort aimed at producing a plan approved by the state would help them in their work. We will complete the meeting with a request for their participation in a public meeting and ask for support distributing the post card invitation/survey link.

We will design a survey which will include an invitation to our public meetings. We will conduct a bulk mailing inviting the public to take the survey, including a wide variety of stake holders that already participate in soil and water conservation district work and partner with local watershed councils. We will review water rights permits in the preliminary planning area to identify private commercial water users and invite them. We will also identify existing in stream water rights holders and invite them.

We are currently working with Oregon Kitchen Table to establish a scope for public outreach to underrepresented populations. See further explanation under the community engagement section.

Provide a brief description of the primary water interest groups in the planning area. If applicable, list organizations that have already committed to this phase of planning and include what resources/skills they will bring to the effort. When possible, upload letters of support in the attachments section. *

Potential interest groups should reflect the unique attributes of the proposed planning area. Examples include: local governments (cities, counties, and special districts), Tribal governments, special districts (e.g., irrigation, public utilities, flood control, parks/recreation, drainage, ports, etc.), water and wastewater utilities, major industries or employers, agriculture (small and large operations), forestry (small and large operations), conservation/environmental groups, power companies, small business, private landowners, water-dependent recreation, anglers/hunters, tourism, private domestic well users, selfsupplied water users, environmental justice communities, Watershed Councils, Soil and Water Conservation Districts, and state and federal agencies (natural resources, land management, business development).

Groups currently committed:
Chehalem Mountain Water Council
Karyn Hanson brings 30 years of experience in water resources engineering focused primarily on hydraulic and hydrologic modeling in support of infrastructure planning and implementation within an asset management context (project implementation). The Council includes both domestic and commercial water rights holders with many years of experience organizing community responses to land use and water rights applications.

Tualatin Soil and Water Conservation District
TSWCD would contribute staff time, leverage our relationships with Washington County residents, host meetings and events, and distribute outreach and engagement materials.

Place-Based Water Planning

Yamhill Soil and Water Conservation District
YSWCD would contribute staff time, host meetings and events, conduct outreach and engagement, and assist with creation of GIS products for the plan.

Greater Yamhill Watershed Council
The Greater Yamhill Watershed Council, Greta Holmstrom, Executive Director, GYWC will review studies, attend and present at public meetings, and distribute outreach materials

Tualatin River Watershed Council
Scott McEwen, Executive Director, is an aquatic biologist and has many years of experience forging partnerships to promote and protect watershed health. He has committed to participate in reviewing data and plans, attending and presenting at the public meetings, and reviewing the final report for the project.

Clackamas Soil and Water Conservation District, Christopher Lapp, District Manage -CSWCD will provide outreach and community engagement support, attend meetings, review materials, and share information through CSWCD's newsletters and media outlets. CSWCD provides professional advice on land management and natural resource conservation for everyone in Clackamas County. They help people find the tools and information they need to care for their land and our shared environment.

Preliminary list of other Interest groups (this list will evolve through out the grant period):

Yamhill County
Washington County
Clackamas County
City of Newberg
City of Sherwood
City of Beaverton
City of Tigard
City of Wilsonville
City of West Linn (outside preliminary planning area but adjacent to Pete's Mountain)
Clean Water Services
Chehalem Valley Wine Growers
Deep Roots Coalition – Dry Farming Advocates
Tualatin Valley Irrigation District
Joint Water Commission
Tualatin Valley Fire and Rescue
Tualatin River National Wildlife Refuge
Tualatin River Wildlife Refuge Wapato Lake

Several small private water systems

Large water rights holders
Domestic water rights holders
Instream water rights holders
L.A. Water Cooperative
Laurelwood Water Users Cooperative
Cedar Green Water District and adjacent small water district
Oregon Water Resources Department
Oregon Department of Fish and Wildlife
Oregon Division of State Lands
Oregon Department of Environmental Quality
Oregon Department of Agriculture

USGS

This grant would provide us an opportunity to identify the full range of relevant stakeholders.

Community Engagement

In your answer below, please consider the Place-Based Water Planning Handbook: Appendix C. Appendix C includes best practices related to community engagement in Place-Based Water Planning and considerations for developing engagement strategies.

For this application, an Environmental Justice Community includes communities of color, communities experiencing lower incomes, communities experiencing health inequities, Tribal communities, rural communities, remote communities, coastal communities, communities with limited infrastructure and other communities traditionally underrepresented in public processes and adversely harmed by environmental and health hazards, including seniors, youth and persons with disabilities (ORS 182.535).

Describe your approach to public participation and engagement of environmental justice communities. In your answer, describe any specific strategies you will use to reduce barriers to participation, create transparency, engage underrepresented voices, and build trust. *

We will supplement previously described public outreach with support from Oregon's Kitchen Table (OKT). Oregon's Kitchen Table is a statewide community engagement program that invites all Oregonians to participate in the decisions that affect their lives. Using culturally specific and targeted outreach, they create online and in-person engagement activities that are available and relevant to all Oregonians, with a special focus on those who have been left out of traditional engagement processes. Oregon's Kitchen Table is a program of the National Policy Consensus Center housed in the Mark O. Hatfield School of Government in the College of Urban and Public Affairs at Portland State University.

In our preliminary discussions OKT leaders emphasized the fact that surveys and mailed invitations may not be effective in soliciting participation from historically under represented communities. They will review the demographics and census data from the planning area and meet with a number of community leaders or "community connectors" to determine effective ways to solicit involvement and will provide a scope of work to support effective outreach for the next planning stage of this work.

A preliminary review of area demographics showed a wide variation of income levels in the Chehalem Mountain area. One goal of our outreach will be to include the upcoming generation of folks trying to establish or maintain homes and businesses in the area. We will also consider elder land owners' interest in succession planning, access to information, and limited incomes.

Our community engagement will develop through out this first PREP planning phase.

Strategic Alignment (PREP Grants)

What are your concerns related to instream and out-of-stream water quantity, quality, and ecosystem needs for both surface water and groundwater (Goal 1, IWRS)?*

Most of our planning area is groundwater limited. The Cooper-Bull mountain area is critical. Neighbors share stories about wells running dry and the cost associated. Farmers worry about the reliability of the source of irrigation. There are four watersheds within the planning area where OWRD has withdrawn authority to permit any new surface water rights in order to protect instream uses. There are no stream gauges in upland tributaries to help us better understand more localized conditions impacting groundwater base flow to streams when there is no runoff. Most of the streams in the area have endangered fish species. Most streams are water quality impaired - 303 D listed. Ecosystems and people both rely on an adequate supply of clean water. Having enough water is the key factor for addressing these needs. Not having enough water makes effective partnerships based on accurate understanding of data and knowledge of community values imperative.

The Greater Yamhill Watershed Council (GYWC) and Tualatin Watershed Council (TWC) are interested in understanding the relationship between groundwater and surface water quantity in the project area. The Upper Willamette River Conservation and Recovery Plan for Chinook Salmon and Steelhead was developed by the Oregon Department of Fish and Wildlife and National Marine Fisheries Service Northwest Region in 2011. This plan identifies watershed councils as key partners in carrying out restoration work and developing local collaborative approaches to Chinook Salmon and Steelhead recovery. GYWC would like to work with interested landowners in the project area to implement water quantity and water quality restoration projects to benefit long-term ecosystem resilience. A planning effort will help focus those efforts where they can be most effective.

Residential development pressure is an issue in the planning area. Counties assigned exceptions from state planning goals protecting forest and farmland to large properties decades ago, before water scarcity was even imagined. Now those properties are applying for subdivision where water supply is inadequate. The domestic uses proposed are exempt from permitting wells beyond registration. Domestic uses require less water than irrigation but farmers in our area believe they account for more than we think. Two of our planning partners have significant experience with land use. This will support collaboration with city and counties stakeholders.

We have also become aware of differences in the irrigation approach of larger, industrial vineyards. Many established vineyards dry farm grapes. New vineyard owners are applying for water rights to irrigate more.

Updated groundwater rules have made groundwater rights more difficult to acquire (positive outcome!). This has increased applications for storage (unintended consequence?). There isn't adequate uplands precipitation and stream flow data to evaluate the impacts of this trend.

Soil and water conservation districts are working to help farmers prevent soil erosion to protect stream water quality, but more intense storm events still threaten to erode stream banks and speed large amounts of rainfall out of the local watersheds to larger streams.

We are concerned about the amount of water we currently have and the seasonal variation of that supply. We need to apply current rainfall statistics and current use estimates to understand what we are actually working with. Conflicts over water use are reduced and/or made effective by accurate information. Having "enough" water positively impacts all the uses. Given the rate of the impact of climate change, the need for projects that keep water in the watersheds as long as possible to maximize storage is urgent. Efficient use is necessary. More enforcement of water rights is needed. Ultimately, community commitment to a plan that emphasizes shared goals and priority investments will

ensure financial resources are focused on solutions rather than costly litigation.

Work Plan and Timeline

Identify the tasks you plan to undertake. If your application is awarded grant funding, these tasks will be incorporated into your grant agreement.

Note: Grant administration is not a separate task. All cost match and grant budget funds must apply to the tasks identified below. See OWRD's Budget Procedures and Allowable Costs document for more information.

Task 1. Title*
Please provide a title for the task.

Finalize Planning Area

Task 1. Schedule*
State the approximate dates during which the task will be completed.

01/01/2027 to 01/01/2028

Task 1. Description*
Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

We have a preliminary planning area. We will discuss the project with many stakeholders and finalize the boundaries of the plan area based on the relationships created and the need for study in each area.

Task 1. Personnel*
Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Karyn Hanson, PE Water Resources - Lead
3 Natural Resource Specialists

2 Watershed Scientists
1 Riparian Restoration Specialist
Various stakeholders

Task 1. Anticipated Deliverables*
Include any deliverables that you anticipate resulting from this task.

A final planning area map for the next planning phase

Task 2. Title*
Please provide a title for the task.

Review studies and GIS data, design and launch story map and prepare for presentations at 4 public meetings

Task 2. Schedule*
State the approximate dates during which the task will be completed.

01/01/2027 to 07/01/2027

Task 2. Description*
Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

The purpose of this task is to choose which studies and data will be used for the story map and public meetings and plan how it will be presented in each context.

GIS Story Map survey - The purpose of this subtask is to develop a public engagement tool which embeds a survey within an interactive map that informs a participant about elements of the watershed they live in while providing context for their water concerns and graphically describing avenues of action that they can influence. The overarching goal would be to solicit acceptance of an invitation to attend a public meeting. This task will be contracted to Bluewater GIS with guidance from the plan's water resources engineer, a soil and water conservation district conservation manager, and a riparian restoration specialist or a watershed scientist.

The approach will be comprehensive so that the GIS workspace is useful for analysis as well. We will decide on priority watersheds from each groundwater limited area to present as examples for the public meetings. Future planning phases will expand the number of watersheds evaluated. Staff from each soil and water conservation district and water shed council will join the task lead, water resources engineer, in preparing a presentation for the public

meeting in the groundwater limited area in their districts. Facilitator from Fluent Freshwater Solutions will prepare presentation and group exercise.

Task 2. Personnel*

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Karyn Hanson, PE Water Resources - Lead
3 Soil and Water Conservation District managers
2 Watershed Scientists
1 Riparian Restoration Specialist
Katie Gaute, Bluewater GIS, GIS specialist
Andrew Purkey, Fluent Freshwater Solutions, Facilitator

Task 2. Anticipated Deliverables*

Include any deliverables that you anticipate resulting from this task.

A consensus on acceptable data for story map and public meeting presentations and a bibliography
A launched story map with embedded survey by 4/1/27
Presentation materials for 4 public meetings

Task 3. Title

Please provide a title for the task.

Public Outreach - Meet with Institutional Stake Holders and Community Connectors (Oregon Kitchen Table) and Distribute Postcard

Task 3. Schedule

State the approximate dates during which the task will be completed.

01/01/2027 to 01/01/2028

Task 3. Description

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

Design Postcard

A team of two people from the initial planning leadership will meet with Cities of Newberg, Sherwood, Tigard, West Linn and Washington, Yamhill, and Clackamas County, Tualatin Irrigation District, Highland Water, Chehalem Parks and Recreation District, and other identified institutional stakeholders to present the planning effort and solicit support. This list may change after the group reviews current studies.

Oregon Kitchen Table Staff will conduct a targeted scoping exercise by reviewing the demographics of the preliminary planning area and identifying and meeting with community leaders or "community connectors" to design a community involvement plan for the next phase of planning. They reach out in historically underrepresented communities to find out who the community leaders are, where they meet, and tailor ways to engage with them to facilitate partnerships and effective community engagement.

Public outreach specialist will print and send out post cards to tax lots in each area.

Task 3. Personnel

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Institutional Stakeholder Meetings-
Karyn Hanson, PE
A resource conservation specialist or watershed scientist from the groundwater limited area the stakeholder has jurisdiction over.

Community Engagement - Community Connector (leaders in historically underrepresented groups) Meetings
Wendy Willis and Sarah Giles from Oregon Kitchen Table

Postcard Design
Alysia Dennis Website Designer

Postcard Mailing
Brooke Karasch, Outreach Specialist from YSWCD

Task 3. Anticipated Deliverables

Include any deliverables that you anticipate resulting from this task.

Effective partnership and support from each institutional stakeholder
Connection with historically underrepresented communities

Graphic design of a post card with invitation to take our survey and attend a public meeting.
Mailed Postcard by 5/1/2027

Task 4. Title

Please provide a title for the task.

4 Public Meetings

Task 4. Schedule

State the approximate dates during which the task will be completed.

09/01/2027 to 11/02/2027

Task 4. Description

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

Hold a public meeting in each groundwater limited/critical area
3 - 5 presentations depending on participation of institutional stakeholders
1 facilitated exercise

Task 4. Personnel

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Karyn Hanson, PE Water Resources - Lead
1 Natural Resource Specialists
1 Watershed Scientists
1 Riparian Restoration Specialist
1 Facilitator, Andrew Purkey, Fluent Freshwater Solutions

Chehalem Mountain Water Council Board volunteers - 2 at each meeting

Task 4. Anticipated Deliverables

Include any deliverables that you anticipate resulting from this task.

We hope to accomplish commitments from participants to participate in the next planning phase.
We will document the outcomes from the facilitated exercise. This will be a collection of values and shared goals.

Do you have another Task to include?*

Yes | No

Task 5. Title*

Please provide a title for the task.

Write Final Report to include community engagement plan (Oregon Kitchen Table) for next phase

Task 5. Schedule*

State the approximate dates during which the task will be completed.

11/01/2027 to 06/01/2028

Task 5. Description*

Provide a description of task activities: include specific details of the task such as purpose, planned approach, and proposed methods.

This task is the final effort to collect and report on the information gleaned from the whole effort and provide institutional stakeholders opportunity for review and comment. Additionally, Oregon Kitchen Table will complete their recommendations for inclusion of historically under represented communities during next phase of planning. They reach out in historically underrepresented communities to find out who the community leaders are, where they meet, and tailor ways to engage with them to facilitate partnerships and effective community engagement.

Task 5. Personnel*

Qualified personnel that will complete the task: Include a description of the professional experience, professional qualifications and licensure of personnel necessary for task work.

Karyn Hanson, PE Lead
Review
3 conservation specialists
2 watershed scientists
Institutional Stakeholders

Wendy Willis and Sarah Giles from Oregon Kitchen Table

Task 5. Anticipated Deliverables*

Include any deliverables that you anticipate resulting from this task.

Final Report for PREP Grant with institutional stakeholder review
Community Involvement Plan for Historically Underrepresented Communities for next phase of planning

Do you have another Task to include?*

Yes | No

If funded, when do you anticipate completing the proposed tasks?*

Grant activities should be completed within 1.5 years of the grant agreement's effective date.

06/01/2028

Budget Instructions

Direct Costs are expenses that can be specifically assigned to the project tasks identified in the grant agreement. These costs fall into seven categories:

1. Staff Salary/Benefits
2. Contractual/Consulting
3. Supplies
4. Materials
5. Travel
6. Equipment *(must be approved)*
7. Other, including but not limited to: permit costs, meeting room rental, project-specific printing costs, non-travel related business meals, and stipends. For more details, refer to the Grant Budget Procedures and Allowable Costs document.

Indirect costs are general overhead expenses that support the overall operation of the organization but cannot be easily attributed to a specific project or activity. Examples of indirect costs include rent and utilities (including telephone and internet services); accounting, administrative support, and human resources; and office supplies.

OWRD will reimburse indirect costs at a rate of **up to 15%**, applied to **eligible direct costs.** Indirect cost reimbursement is not allowed on capital expenditures, stipends, or the portion of any subcontract exceeding $25,000.

Matching Funds, or cost match, are financial or in-kind contributions provided by the grantee or project partners to support the project. Match may be **pending** or **secured** at the application stage. Before grant funds are reimbursed, grantees must provide proof that the match is secured. Match can take two forms: cash match and in-kind match.

Instructions: Please complete the tables in the next section, "Budget and Match Funding", with information about the grant funds requested and match funds (examples below). Refer to the Grant Budget Procedures and Allowable Costs document for a description of budget categories, cash vs. in-kind match, and further guidance.

Notes:

- There are two tables for each budget category (e.g., staff salary/benefits, contractual/consulting, etc.).
    - Direct costs table
    - Indirect costs table. Please do not include indirect costs on capital expenditures, stipends or the portion of any subcontract exceeding $25,000.
- In the "Type of Match" column, indicate whether the match is cash or in-kind.
- In the "Match Description" column, include the match source name and whether match is pending or secured.

Place-Based Water Planning

Budget and Match Funding

Staff Salary Benefits - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	Project Management	Manage project, Analysis, Presentation, Final Report	$ 25,560	200 hours @ 142				$ 25,560
	Category Total		**$ 25,560**		**$ -**			**$ 25,560**

Staff Salary Benefits - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	Project Management	Associated Indirect Costs	$ 2,556	10% of Direct Costs				$2,556
	Category Total		**$ 2,556**		**$ -**			**$ 2,556**

Contractual/Consulting - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	GIS Specialist	Prepare Data and Story Map and Presentation Materials	$ 12,000.00	Total Bid				$ 12,000.00
2	Meeting Facilitator	Facilitate Exercise at 4 Meetings	$ 10,000.00	Total Bid				$ 10,000.00
3	Comm. Involvement	Conduct "Community Connector" meetings and write community involvement plan	$ 15,000.00	Total Bid				$ 15,000.00
4	TSWCD Rural Conservation Program Manager	Data Review and Presentation, Public Meetings, Final Report Review		30 hours @ 71.63	$ 2,149.00	In Kind	TSWCD Secured	$ 2,149.00
5	Tualatin Watershed Scientist	Data Review and Presentation, Public Meetings, Final Report Review	$ 1,650.00	30 hours @ $55				$ 1,650.00

Contractual/Consulting - Direct (cont'd)

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
6	YSWCD Conservation Projects Manager	Data Review and Presentation, Public Meetings, Final Report Review AND GIS SUPPORT	$ 1,341.00	18 hours @ 74.50 - 50% Match	$ 1,341.00	In Kind	YSWCD Secured	$ 2,682.00
7	YSWCD Riparian Conservationist	Technical Assistance		26 hours @ 63.75 - All Match	$ 1,657.50	In Kind	YSWCD Secured	$ 1,657.50
8	YSWCD Outreach Coordinator	Print and mail post cards and prepare meeting materials	$ 980.00	16 hours @ 61.25 - 50% Match	$ 980.00	In Kind	YSWCD Secured	$ 1,960.00
9	GYWC ED	Data Review and Presentation, Public Meetings, Final Report Review	$ 1,560.00	24 hours @ 65				$ 1,560.00
10	CSWCD District Manager	Data Review and Presentation, Public Meetings, Final Report Review		30 hours @ 79.74	$ 2,392.00	In Kind	CSWCD Secured	$ 2,392.00
	Category Total		**$ 42,531**		**$ 8,520**			**$ 51,051**

Contractual Consulting - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	Tualatin Watershed Scientist	Indirect Costs	$ 245.00	15% of Direct Costs				$245
2	YSWCD Conservation Projects Manager	Indirect Costs	$ 200.00	15% of Direct Costs				$200

Contractual Consulting - Indirect (cont'd)

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
3	YSWCD Outreach Coordinator	Indirect Costs	$ 158.00	15% of Direct Costs				$158
4	GYWC ED	Indirect Costs	$ 250.00	15% of Direct Costs				$250
	Category Total		**$ 853**		**$ -**			**$ 853**

Supplies - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Supplies - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Materials - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Materials - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Travel - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Travel - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Equipment - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Equipment - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0.00
	Category Total		**$ -**		**$ -**			**$ -**

Other - Direct

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1	Public Outreach	Print and mail post cards 3 counties	$18,750	$3 dollars per piece				$18,750
2	Meeting Support	CMH20 Council Volunteers		32 Volunteer hours @ 34.79	$1,113	In Kind	CMH20 Council Secured	$1,113
3	Meeting Rental/Food	Rent 4 meeting spaces and provide food	$4,000	Rent and Food 4 hour meeting				$4,000
4	Graphic Design	Design Post Card	$1,000	Total Bil				$1,000
	Category Total		**$ 23,750**		**$ 1,113**			**$ 24,863**

Other - Indirect

	Line Item	Description	Amount Requested	Justification	Match Amount	Type of Match	Match Description	Project Amount
1								$0
	Category Total		**$ -**		**$ -**			**$ -**

	Totals		**$ 95,250**		**$ 9,632.50**			**$ 104,883**

Place-Based Water Planning

07/14/2026

Does your budget request include stipends? (If yes, list them under the 'Other' Direct Costs budget category above. Note that indirect cost reimbursement is not allowed on stipends.)*

A stipend is a fixed monetary payment provided to individuals as compensation for participation in specific activities related to a grant-funded project. Unlike wages or salaries, stipends are not tied to hourly work but are intended to offset costs associated with time, effort, or participation in eligible project activities. In the context of OWRD grants, stipends help support equitable participation by reducing financial barriers by compensating individuals for their contributions to planning and engagement efforts.

Yes | **No**

Attachments (PREP Grants)

Required Attachments

Map of Proposed Planning Area

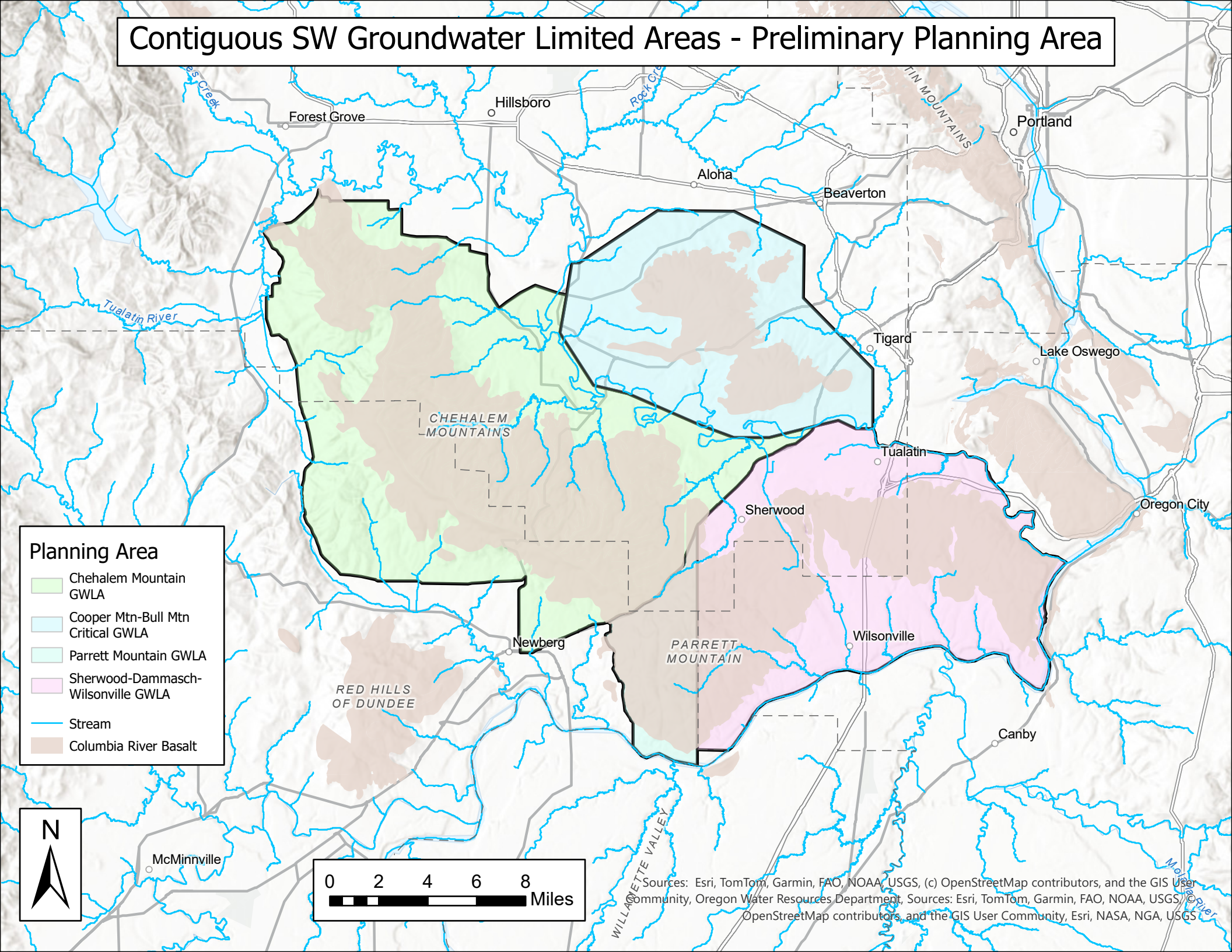
Please provide a map of your proposed planning area with the required elements:

- Map title and legend
- Planning area boundaries
- North arrow and map scale
- County boundaries
- Cities
- Major sources of surface water (e.g., rivers, lakes, streams, wetlands, reservoirs)

Map of Proposed Planning Area*

GWLAPlanningAreaMapGeology.pdf

Contiguous SW Groundwater Limited Areas - Preliminary Planning Area



Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

Match Documentation

Please attach documentation of match funding list in the budget section. This includes both secured and pending match contributions, as well as in-kind match from volunteers.

Secured Match Funding

For secured match contributions, please attach a letter of support or other formal documentation from each funding source, including your own organization if applicable. Documentation must:

- Clearly state the dollar amount committed to this project,
- Describe the specific work, services, or resources that will be provided through the match.

Pending Match Funding

For pending match contributions, please attach documentation that demonstrates the anticipated funding. This may include a copy of a submitted application, email correspondence, or other written evidence. Documentation must:

- Specify the amount of match funding requested or anticipated,
- Include the project name,
- Indicate the date the funding application was or will be submitted (if applicable),
- Identify the funding program from which funds are pending (if applicable),
- Provide evidence that the project is eligible for the identified funding program.

In-Kind Match from Volunteers

If your project includes in-kind match contributions from volunteers or landowners, you must provide documentation that supports the estimated value of these contributions. Acceptable documentation includes:

- A description of the volunteer activities and how they support the project,
- An estimate of the number of volunteer hours and the hourly rate used to calculate the value,
- A signed letter or agreement from the organization or individual coordinating the volunteer effort.

Standard Rate: OWRD uses the Independent Sector rate as the standard hourly rate for volunteer and landowner contributions.

Requesting a Different Rate: If you wish to use a different hourly rate for volunteer and landowner contributions, you must provide:

- Justification for the proposed rate,
- Documentation that supports the rate (e.g., wage data specific to the job type and geographic area).

Place-Based Water Planning(Chehalem Mountain Water Council)

Place-Based Water Planning

07/14/2026

Match Documentation*

2026.06.30 Chehalem Mountain Water Council LOS.pdf

YAMHILL SOIL & WATER
CONSERVATION DISTRICT

June 30, 2026

To: Oregon Water Resources Department's (OWRD) Place-Based Planning Grant Review Team

RE: Support for Chehalem Mountain Water Council's PREP grant application

Dear OWRD's Place Based Planning Grants Review Panel,

Yamhill Soil and Water Conservation District supports the Chehalem Mountain Water Council's Planning Readiness Evaluation and Preparation (PREP) application for water planning in the Chehalem Mountain and adjacent groundwater limited areas. We are familiar with Karyn Hanson, President of the Council, from her engagement with our local work group meetings over the past several years. Through these meetings and other interactions Karyn has brought to our attention the need for a rigorous and thorough study to understand the Chehalem Mountain groundwater limited area. Our staff has worked with Karyn to research and apply for grants to support public outreach and community engagement related to her groundwater level monitoring network in Yamhill and Washington counties.

We support the place-based water planning process as it directly engages local water users for information and creative ideas about increasing water resilience. Our staff works with local land managers and property owners to conserve water by various means. We are familiar with managed recharge for groundwater supplies and are eager to learn more about its applicability in our local groundwater limited areas. Yamhill SWCD's knowledge and expertise will compliment Karyn's engineering background well. We have worked hard to develop relationships with the members of the community that see water scarcity as a priority and these relationships will prove beneficial to this endeavor.

Yamhill SWCD will gladly support Karyn's leadership in this endeavor through providing technical assistance related to agricultural water quality, riparian restoration, and GIS services. In addition, we will provide outreach and community engagement support, helping to facilitate meetings, developing surveys and outreach materials, and sharing information through newsletters and other media outlets. Yamhill SWCD's staff time provided as in-kind match includes: 18 hours of the Conservation Project Manger's time valued at $74.50/hour, 16 hours of the Outreach Coordinator's time valued at $61.25/hour, and 26 hours of the Riparian Conservationist's time valued at $63.75/hour, totaling $3,978.50.

On behalf of Yamhill SWCD, we are excited about this opportunity and look forward to collaborating and advancing community engagement and conservation in the Chehalem Mountain Groundwater Limited Area.

Sincerely,

Andy Bleckinger
Executive Director

2200 SW 2ND ST, MCMINNVILLE, OR 97128 • (503) 472-6403 • YAMHILLSWCD.ORG

Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

Chehalem OWRD Grant LOS CL Signed.docx

Clackamas Soil and Water Conservation District

June 29, 2026

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Letter of Support for Chehalem Mountain Place-Based Water Planning PREP Grant

Dear OWRD's Place Based Planning Grants Review Panel,

Clackamas Soil and Water Conservation District (SWCD) is pleased to support the Chehalem Mountain Water Council's Planning Readiness Evaluation and Preparation (PREP) application for water planning in the Chehalem Mountain and adjacent groundwater limited areas.

Karyn Hanson, President of the Council, has highlighted the need for a rigorous study of the Chehalem Mountain groundwater limited area. While current work focuses on Yamhill and Washington counties, the Council intends to expand these efforts into the Parrett Mountain and Sherwood-Wilsonville areas of Clackamas County. These regions share a fractured Columbia River Basalt geology, resulting in compartmentalized aquifers that necessitate a better understanding of water quantity concerns and cooperation among water users.

We strongly support this place-based planning process, as it engages local water users to develop creative solutions for water resilience. Our staff frequently collaborates with land managers and property owners on conservation initiatives, and we are particularly interested in exploring the applicability of managed groundwater recharge in our local limited areas.

If the application is awarded, Clackamas SWCD will provide outreach and community engagement support, attend meetings, review materials, and share information through our newsletters and media outlets. Clackamas SWCD staff's time for project assistance will be limited to approximately 30 hours. At a rate of $79.74 per hour, this represents an in-kind match value of $2,392.20.

On behalf of Clackamas SWCD, we look forward to the opportunity to collaborate on enhancing community engagement and conservation in the Chehalem Mountain Groundwater Limited Area.

Sincerely,



Christopher Lapp
District Manager, Clackamas SWCD

22055 S. Beavercreek Rd. Ste. 1, Beavercreek, OR 97004
Ph: 503.210.6000; conservationdistrict.org

Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

LOS - Chehalem Mt Water Council OWRD grant - 2026-06.pdf

Tualatin Soil and Water
CONSERVATION DISTRICT
Conservation is for everyone.

Tualatin Soil and Water Conservation District
7175 NE Evergreen Parkway, #400
Hillsboro, OR 97124

June 16, 2026

To: Oregon Water Resources Department

RE: Letter of Support for Chehalem Mountain Water Council Place Based Planning Grant

I am writing on behalf of Tualatin Soil and Water Conservation District to offer support and in-kind match of $2149.00 for the Place Based Water Planning PREP (Planning Readiness, Evaluation and Preparation) grant that Chehalem Mountain Water Council is applying for under Karyn Hanson's leadership. We are aware of the challenges posed by limited groundwater areas in and adjacent to Chehalem Mountain. Some of these areas are part of our district. Local community members are a direct source of information about water use. It is a wise approach to involve those closest to the issue.

Tualatin SWCD services the residents of Washington County by providing technical, financial, and educational support for conserving and enhancing natural resources. We work to prioritize our financial resources by identifying areas of the County where natural resource concerns are greatest. For water conservation, the Chehalem Mountain Groundwater Limited Area is one such geography. Willing landowners in this area rank high for TSWCD supported rainwater harvesting and efficient irrigation projects. In addition, we support work for a groundwater level monitoring network that Karyn designed (in collaboration with OWRD hydrogeologists) and installed on Chehalem Mountain. Our staff have attended the Chehalem Mountain Water Council nonprofit meeting and engaged with a neighborhood group Karyn is involved with to conserve a large property near Gaston. Our staff will support her leadership of this evaluation of readiness for a subsequent formal planning effort.

With the help of OWRD funding, a water planning project can benefit and leverage the work of Tualatin SWCD and our partners and benefit natural resources and the public in Washington and neighboring counties.

Sincerely,

Lacey M Townsend

Lacey Townsend

Executive Director
Tualatin Soil and Water Conservation District

Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

ChehalemWaterCouncilVolunteerMatch62026.pdf

Chehalem Mountain Water Council

PO Box 291

Newberg, OR 97132

June 30, 2026

To The Place Based Water Planning PREP Grant Review Committee:

The Chehalem Mountain Water Council Board of Directors will donate 32 hours of time to organizational and administrative support at four public meetings proposed in the PREP grant application. Two board members will attend each meeting. The referenced hourly rate is $34.79. The total in kind volunteer match is valued as $1113.

Thank you!

Karyn G. Hanson

Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

Optional Attachments

Letters of Support

Hanson Recommendation.pdf

Place-Based Water Planning Grant Review Committee
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Dear Members of the Grant Review Committee,

As a member of the Chehalem Water Counsil and the Cedar Green Water District I am writing to express my strong, enthusiastic support for Karyn Hanson's application for the Chehalem Mountain place-based planning grant. The Chehalem Water Council is deeply invested in balancing the needs of our shared watershed. Through our extensive collaboration with Ms. Hanson, we can confidently vouch for her outstanding technical knowledge, diplomatic approach, and trusted standing among neighbors.

Ms. Hanson's leadership within the Chehalem Water Council and partnership with the Cedar Green Water District, exemplifies her unique ability to manage fragile natural resources with transparency. She has been instrumental in bridging the gap between local landowners and water managers by prioritizing data-driven, citizen science solutions. Notably, she strengthened and coached residents on groundwater measurement strategies. Bringing together independent individuals, she empowered neighbors with objective data, demystified complex hydrogeology, and built a shared baseline of truth regarding our local aquifer's health.

Another example of our successful partnership with Ms. Hanson is her commitment to protecting the integrity of our regional water systems. When local resource limits were tested, Ms. Hanson spearheaded an objective, data-backed effort to successfully hold a commercial winery accountable during a surface water capture application. Her diligent oversight ensured that state environmental and compliance standards were addressed. By focusing firmly on regulatory compliance, she protected the watershed while maintaining a constructive dialogue across the community.

Ms. Hanson's forward-thinking mindset makes her uniquely qualified to navigate the region's long-term infrastructure planning. She consistently takes a measured, legally sound approach to complex water management strategies, including local surface and ground water storage initiatives. Her focus remains strictly on ensuring that any future infrastructure developments align seamlessly with state water laws, protect local property rights, and secure sustainable water resources for generations to come. For these reasons, I offer my highest recommendation and full support for her grant application.

Sincerely,

Rosalind Rockweit

Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

OATLOS2016.06.14.pdf

OREGON AGRICULTURAL TRUST

Oregon Water Resources Department
725 Summer St NE A
Salem, OR 97301

6/15/2026

RE: Support for Chehalem Mountain Water Council's PREP Grant

To Whom It May Concern:

I am writing to express support for the Place Based Water Planning PREP (Planning Readiness, Evaluation and Preparation) grant that Chehalem Mountain Water Council is applying for under Karyn Hanson's leadership.

I support the idea of "Place Based Planning". Water use is a contentious issue. The local community has intimate knowledge of the impacts of water concerns. I have worked with Karyn Hanson for two years on a neighborhood response to a subdivision application in an area where the county government changed a zoning designation from farm use to residential without foresight that water issues would be pivotal. My organization supports the maintenance of farming land for a variety of reasons. It is important to evaluate the value of farming to the community and the state. We view farming as a more beneficial use than increasing residential density in areas where land remains useful for farming.

During the last two years I have observed Karyn represent the interests of the Chehalem Mountain community in a balanced way throughout the land use public process. She maintained a reliance on data to characterize neighbors' water concerns and remained objective in her representations at public hearings. She demonstrated expert knowledge about domestic and agricultural use of water. Her understanding of water rights and land use processes was invaluable.

I believe Karyn is more than capable of leading a public discussion on water use in the local community. Her relationships with municipal, county, and state water professionals will be beneficial as well. I know she will be successful and return a valuable process with useful outcomes, should you choose to award Chehalem Mountain Water Council this grant.

Thank you.

Nellie McAdams

Executive Director, OAT

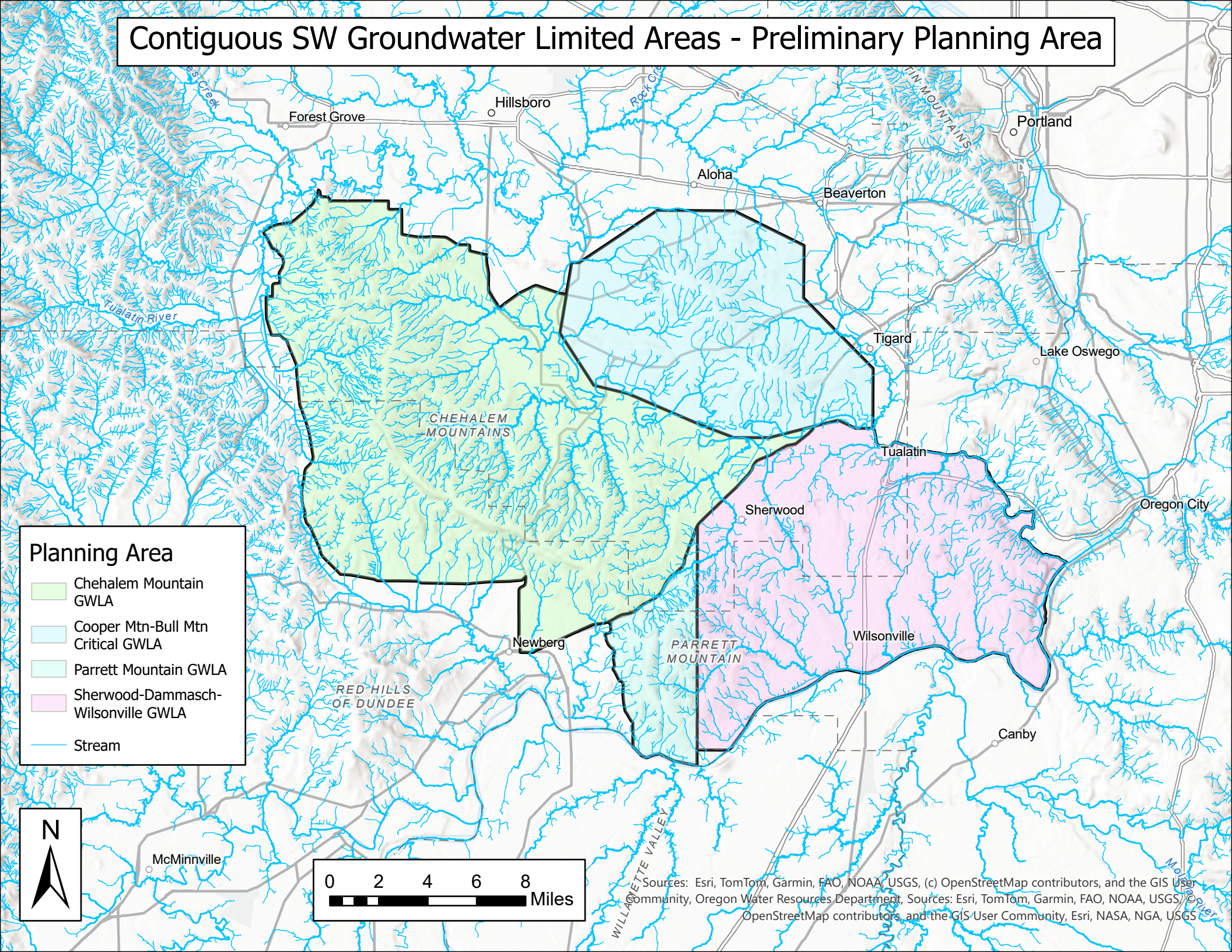
Place-Based Water Planning

07/14/2026

Attachments (PREP Grants) *(cont.)*

GWLAPlanningAreaMap2.pdf

Contiguous SW Groundwater Limited Areas - Preliminary Planning Area



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Oregon Water Resources Department, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS

Place-Based Water Planning(Chehalem Mountain Water Council)

Place-Based Water Planning

07/14/2026

Certification

I certify that this application is a true and accurate representation of the proposed work and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant and Co-Applicant (if applicable) certify that they are aware of the requirements of an Oregon Water Resources Department Funding award, have read and are aware of conditions within the example grant agreement and are prepared to implement the proposal, if awarded.

Applicant/Authorized Person

First Name*

Karyn

Last Name*

Hanson

Role or Title*

President, Chehalem Mountain Water Council

Date*

07/02/2026

Applicant/Authorized Person Signature*

